

1
SEQUENCE LISTING

<110> Maxygen Holdings

<120> Full-length Interferon Gamma Polypeptide Variants

<130> 0253wo410

<140>

<141>

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1

Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn
1 5 10 15Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile
20 25 30Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser Gln
35 40 45Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp Gln
50 55 60Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val Lys
65 70 75 80Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu Lys Leu Thr
85 90 95Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His Glu
100 105 110Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly Lys
115 120 125Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg Arg Ala Ser Gln
130 135 140

<210> 2

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2

Met Lys Tyr Thr Ser Tyr Ile Leu Ala Phe Gln Leu Cys Ile Val Leu
1 5 10 15

Gly Ser Leu Gly Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu
 20 25 30

Asn Leu Lys Lys Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn
 35 40 45

Gly Thr Leu Phe Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp
 50 55 60

Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe
 65 70 75 80

Lys Asn Phe Lys Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile
 85 90 95

Lys Glu Asp Met Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg
 100 105 110

Asp Asp Phe Glu Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val
 115 120 125

Gln Arg Lys Ala Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser
 130 135 140

Pro Ala Ala Lys Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Arg
 145 150 155 160

Gly Arg Arg Ala Ser Gln
 165

<210> 3

<211> 140

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Actimmune

<400> 3

Met Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe
 1 5 10 15

Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly
 20 25 30

Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser
 35 40 45

Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp
 50 55 60

Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val
 65 70 75 80

Lys Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu Lys Leu
 85 90 95

Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His
100 105 110

Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly
115 120 125

Lys Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg
130 135 140

<210> 4
<211> 498
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Expression
cassette optimised for expression of interferon
gamma in CHO cells

<400> 4
atgaagtaca caagctatat cctggccttt cagctgtgca tcgtgctggg ctccctggc 60
tgctattgcc aggaccctta cgtgaaggag gccgagaacc tgaagaagta ctttaacgcc 120
ggccacagcg atgtggccga caatggcaca ctgttctgg gcacatcgtaa gaatttggaaag 180
gaggagagcg atcggaaagat catgcagtcc cagatcgtgt ccttctattt caagctgttt 240
aagaatttca aggacgatca gtccatccag aagtccgtgg agaccatcaa ggaggacatg 300
aacgtgaagt tttcaatag caataagaag aagagagacg atttcgagaa gctgaccaat 360
tactccgtga cagacctgaa cgtgcagaga aaggccatcc acgagctgtat ccaggtgatg 420
gccgagctgt ccccccgcgc caagaccggc aagagaaaaga gaagccagat gctttcaga 480
ggcagacggg ccagccag 498

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 5
gatggctggc aactagaag 19

<210> 6
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 6
tgtacgggtgg gaggtctat 19

<210> 7
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 7
gttcagggtct gtcacgctgt aattggtcag ctt 33

<210> 8
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 8
aagctgacca attacaccgt gacagacctg aac 33

<210> 9
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 9
catgatcttc cgatcggtct cgttcttcca att 33

<210> 10
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 10
aatttggaaaga acgagaccga tcggaagatc atg 33

<210> 11
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 11
ccgtcagatc ctaggctagc ttattgcgggt agtttatcac 40

<210> 12
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 12
gagctcggta ccaagctttt aagagctgta at 32